

SC432D-HF6LDF(DXX-I40-G06-NUF) Collinear omni, 5.5 dBd, dual ports, 40 dB, NuF, 746-869 MHz

- Dual collinear antennas with 5.5 dBd gain and <1.5:1 VSWR
- Designed to operate in extreme environmental conditions
- Null filled for optimal close-in coverage
- Low PIM and 40 dB port-to-port isolation

Sinclair's new line of high isolation multiple port antennas, the SC432's are collinear, omni-directional antennas are available with various gains (0, 3, and 6 dBd), and also come as single, dual, or triple antennas all within the same radome.

When ordering, please refer to the chart below for the model number. Downtilt configurations are subject to various list price. Please contact your Sinclair Sales Representative or Customer Service Representative for more information.

| Model Number                   | Downtilt |
|--------------------------------|----------|
| SC432D-HF6LDF(D00-I40-G06-NuF) | 0°       |
| SC432D-HF6LDF(D01-I40-G06-NuF) | 1°       |
| SC432D-HF6LDF(D02-I40-G06-NuF) | 2°       |
| SC432D-HF6LDF(D03-I40-G06-NuF) | 3°       |
| SC432D-HF6LDF(D04-I40-G06-NuF) | 4°       |
| SC432D-HF6LDF(D05-I40-G06-NuF) | 5°       |
| SC432D-HF6LDF(D06-I40-G06-NuF) | 6°       |
| SC432D-HF6LDF(D07-I40-G06-NuF) | 7°       |
| SC432D-HF6LDF(D08-I40-G06-NuF) | 8°       |
| SC432D-HF6LDF(D09-I40-G06-NuF) | 9°       |
| SC432D-HF6LDF(D10-I40-G06-NuF) | 10°      |



www.sincltech.com

| Region                      | United States          | Europe, Middle East and Africa  | Caribbean and Latin America    | Canada and rest of the world                             |
|-----------------------------|------------------------|---|--------------------------------|--|
| <b>Telephone</b>            | USA: 1 800 263 3275    | International: +44 (0) 1487 84 28 19  | International: +1 905 726 7676 | Canada: 1 800 263 3275<br>International: +1 905 727 0165 |
| <b>E-mail</b>               | salesusa@sincltech.com | salesuk@sincltech.com   | salesla@sincltech.com          | salescan@sincltech.com                                   |
| Product Specification Sheet |                        | SC432D-HF6LDF(DXX-I40-G06-NUF)  | Issue: 0                       | Dated: 30-04-19  |
| EPR                         |                        |   |                                | Dated: 20-08-18  |
| Customer Tech Manual        |                        | Sinclair's commitment to product leadership may result in improvement or change to this product |                                |  |
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### Electrical Specifications

|                                     |           |                               |
|-------------------------------------|-----------|-------------------------------|
| Frequency Range                     | MHz       | 746 to 869                    |
| Bandwidth                           | MHz       | 123                           |
| Connector                           |           | 7/16 DIN-Female               |
| Gain (nominal)                      | dBd (dBi) | 5.5 (7.6)                     |
| Input VSWR (max)                    |           | 1.5:1                         |
| Polarization                        |           | vertical                      |
| Impedance                           | Ω         | 50                            |
| Pattern                             |           | Omni-directional              |
| Vertical beamwidth (typ)            | degrees   | 12.5                          |
| Average Input Power (max)           | W         | 500                           |
| Number of ports                     |           | 2                             |
| Isolation between sections (nom)    | dB        | 40                            |
| Passive intermod. (2x20W, 3rd ord.) | dBc       | -150                          |
| Null fill                           | %         | 25                            |
| Lightning protection                |           | DC ground                     |
| Electrical tilt (available)         |           | 0-10 degrees in 1° increments |

### Notes

\*1 : Qty 2

### Mechanical Specifications

|                                    |          |                           |
|------------------------------------|----------|---------------------------|
| Width                              | in (mm)  | 3.5 (89)                  |
| Depth                              | in (mm)  | 3.5 (89)                  |
| Length/ Height                     | in (mm)  | 175 (4445)                |
| Base pipe diameter                 | in (mm)  | 3.5 (89)                  |
| Base pipe mounting length          | in (mm)  | 24 (610)                  |
| Radome material                    |          | fiberglass (UV protected) |
| Weight                             | lbs (kg) | 36.5 (16.57)              |
| Weight iced (1/2" ice)             | lbs (kg) | 66 (29.96)                |
| Mounting Hardware (Optional)       |          | Clamp006B *1              |
| Recommended For Offset Side Mount: |          | SMK-335-A3 or SMK-335-A7  |
| Mounting configurations            |          | upright                   |
| Actual shipping weight             | lbs (kg) | 76 (34.5)                 |
| Shipping dimensions                | in (mm)  | 198x6x6 (5029x152x152)    |

### Environmental Specifications

|   |             |                          |
|---|-------------|--------------------------|
| Temperature range                         | °F (°C)     | -40 to +140 (-40 to +60) |
| Wind Loading Area (Flat Plate Equivalent) | ft² (m²)    | 2.46 (0.23)              |
| Wind Loading Area (1/2" ice)              | ft² (m²)    | 3.25 (0.3)               |
| Survival wind velocity (no ice)           | mph (km/h)  | 190 (306)                |
| Rated wind velocity (no ice)              | mph (km/h)  | 170 (274)                |
| Rated wind velocity (1/2" radial ice)     | mph (km/h)  | 155 (250)                |
| Lateral Thrust (100 mph No Ice)           | lbs (N)     | 97 (431.5)               |
| Bending moment (100 mph No Ice)           | ft-lbs (Nm) | 520 (702)                |
| Tip deflection (100 mph No Ice)           | degrees     | 1.52                     |

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